



Product brochure

GEZE MCRdrive





Areas of application



For areas with the highest hygiene and sealing requirements

Door systems in hospitals, laboratories and the pharmaceutical and food industries are subject to the highest hygiene and sealing requirements. Sensitive areas such as operating theatres, clean rooms and production facilities must be reliably sealed to protect patients and products while ensuring compliance with hygiene and safety regulations. This is exactly where the GEZE MCRdrive excels. Thanks to the three-dimensional movement of the door leaf, it provides a hermetic seal and meets the air-

tightness requirements of Class D in accordance with EN 12207. With sound isolation of up to 37 dB, it also reduces disruptive noise and improves acoustics in sensitive environments. Its modular design allows it to be precisely adapted to specific applications, including isolation rooms, clean rooms or quarantine facilities. For operators, this means reliable operation, improved infection control and higher level of comfort in demanding environments.

Highlights at a glance



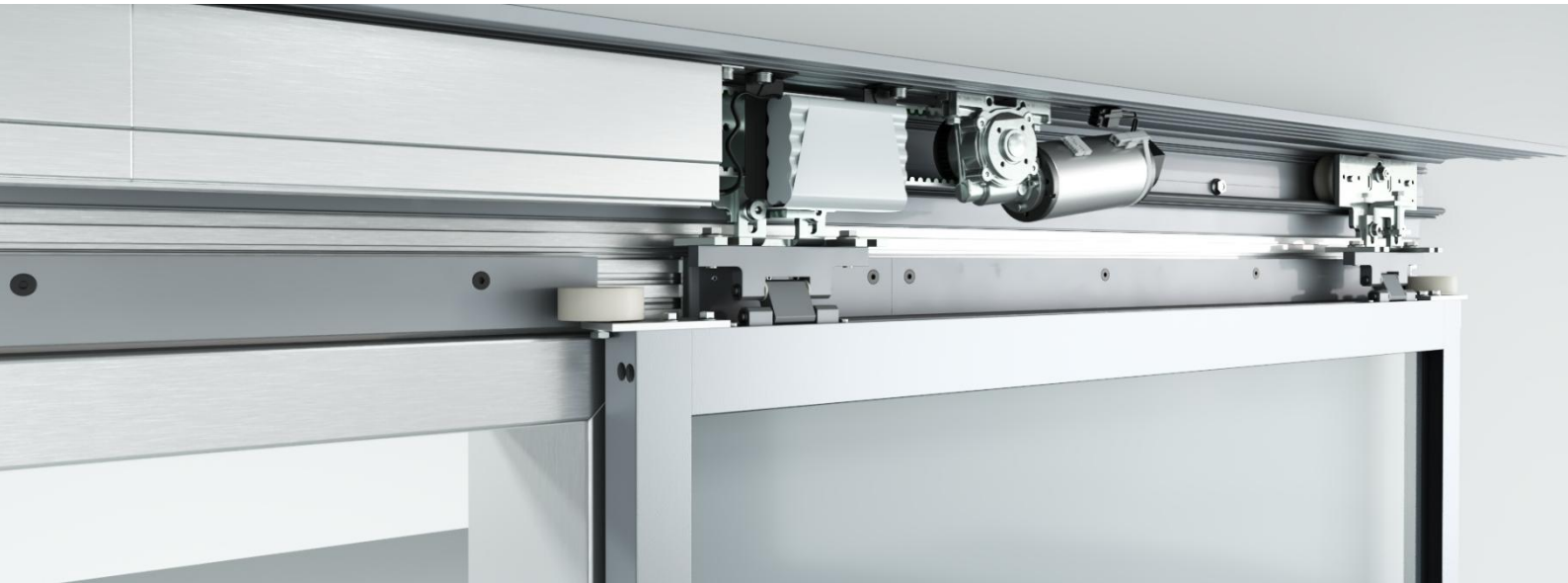
- **Hermetically sealed (vertically and horizontally):**
Ensures a reliable airtight seal for sensitive areas
- **Air tightness in accordance with EN 12207 Class D:**
Meets Class D airtightness requirements for internal doors
- **Sound proofing up to 37 DB (DIN EN 10140-1/2):**
Reduces noise transmission, improving comfort and working conditions
- **Radiation protection in accordance with DIN 6834:**
Available with lead linings in various thicknesses
- **Modular design:**
Can be adapted to different door sizes, retrofitted to existing installations, and configured to suit a range of operational requirements
- **Compatible with a door leaf provided on site:**
The GEZE MCRdrive profile and sealing system can be fitted to on-site door leaves, ensuring that the statement of approval remains valid



Areas of application

- Hospitals & Clinics
- Pharmaceutical & Food Industry
- Laboratories & Research
- Quarantine facilities

Product features



Product features	
Version	single leaf, left / right
Clearance width	800 mm – 2,500 mm
Passage height	2,500 mm*
Max. weight	140 kg for glass leaves, up to 200 kg for stainless steel/HPL versions or on-site structures
Radiation protection	in accordance with DIN 6834; lead inserts available in various thicknesses
Air tightness	in accordance with EN 12207, Class D
Sound insulation	in accordance with EN 10140, up to 37 DB
Surfaces	EV1, RAL
Door leaf options	glass, HPL, stainless steel
Additional options	door frames, cover with dust chute, locking mechanism

* Larger sizes available on request

Technology in detail

Software "DCU NT OP 5.1" with modes of operation for use in hospitals

- Special modes of operation for use in a medical environment
- Push & Go function: The door opens automatically when gently pushed
- Programmable opening widths:
 - Restricted access for medical staff
 - Central opening for cleaning
 - Maximum opening for transporting hospital beds
- Flexible and efficient control systems for optimising traffic flows and saving energy

Recommended activation devices

- GC 307+ non-contact proximity switch for convenient and hygienic release
- Compatible with all GEZE standard control units for automatic linear sliding doors



Protection

- Protection and activation of the passageway: GC 363+
- Optional protection of the secondary closing edge: GC 339+

Door leaf options

The GEZE MCRdrive door leaf is available in a range of configurable variants based on the Mix & Match concept. Project-specific features such as integrated handles, vision panels or X-ray protective glazing can also be incorporated on request.



Glass leafs – ISO-compliant fine-framed

- 10 mm LSG, with a satin finish
- 12 mm LSG (40 DB)
- 22 mm ISO



HPL leaf

- Available in various designs and colours
- View window available
- Handles available
- Lead inlay available



Stainless steel leaf

- Available in various designs
- View window available
- Handles available
- Lead inlay available

Connection with on-site door leaves

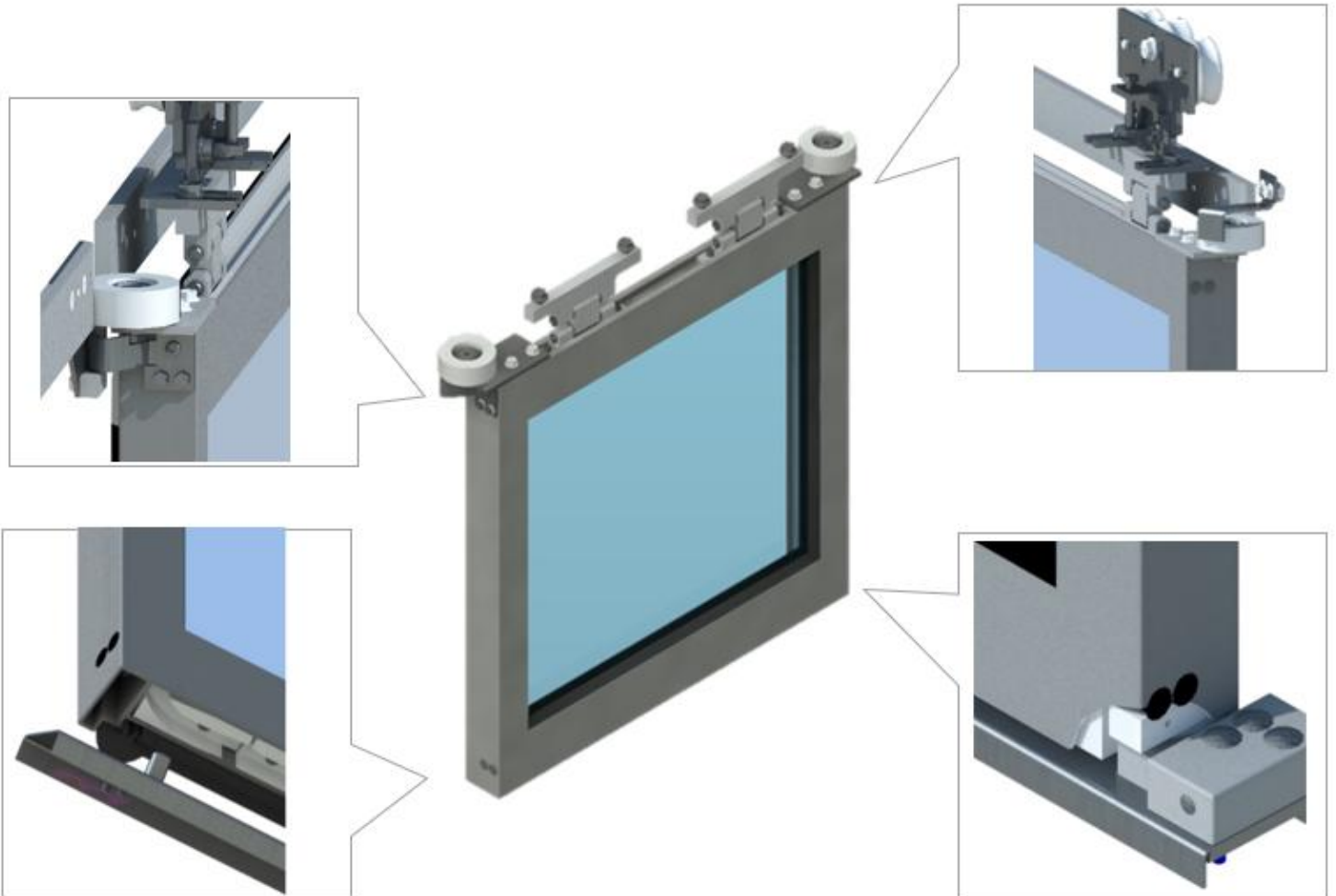
Integrating customer-supplied door leaves into the GEZE MCRdrive system is straightforward.

Transfer of the airtightness certification is possible, subject to the following conditions:

- The certified door leaf and sealing system are integrated into the building structure or the customer's design
- The door frame is constructed in accordance with GEZE specifications
- **Technical coordination and specification:**
To ensure smooth integration, we recommend consulting GEZE at an early stage of the project. We can provide the necessary technical specifications and suitable sealing profiles, or review your proposed solution to confirm compatibility.

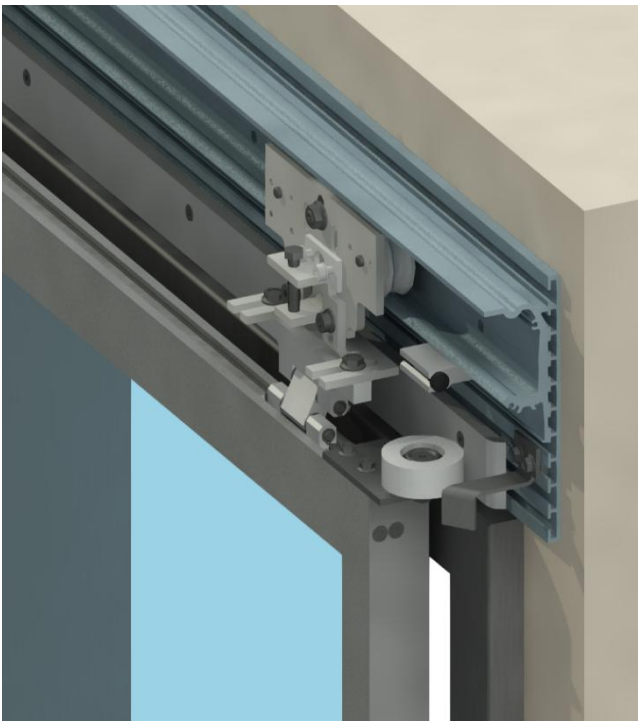


Focus on hermetic tightness



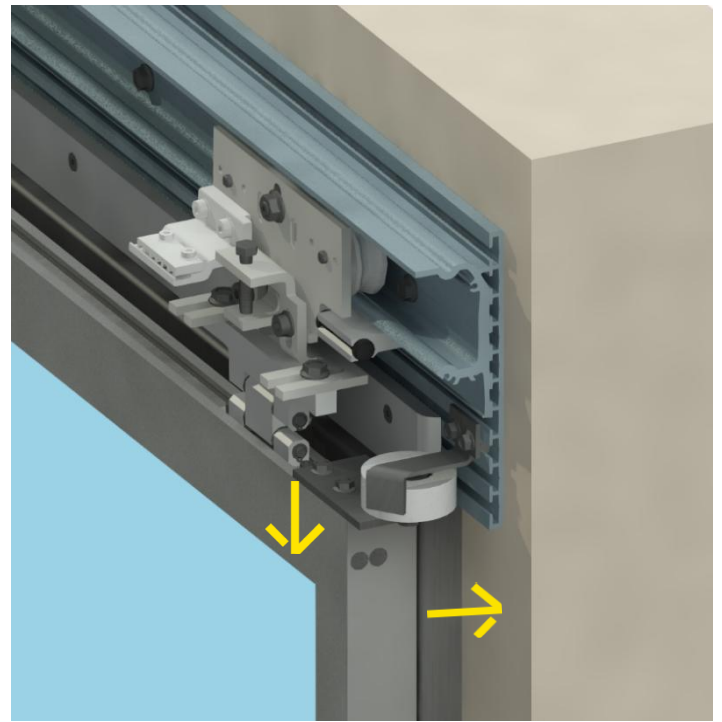
The GEZE MCRdrive achieves its airtight seal through the interaction of a three-dimensionally guided door leaf, specially designed sealing profiles and precisely adjustable contact pressure at all corners of the door leaf. A specially designed articulated joint mechanism creates the three-dimensional movement: the door leaf lowers in a controlled manner while simultaneously pressing firmly against the frame, ensuring that all sealing surfaces close completely to form a hermetic seal.

The **inflatable seal** provides a secure seal while reliably compensating for surface irregularities. **Vulcanised corner seals** prevent gaps from forming at the corners, while the **dual-chamber seal** provides an additional sealing layer for consistently reliable performance. The contact pressure at the lower primary and secondary closing edges can be precisely adjusted, ensuring maximum sealing performance exactly where it is needed.



Open

When the door is open, all seals are retracted, allowing the door leaf to move freely. The guide roller runs along the guide profile, while the articulated joint lifts the door leaf clear of the opening. At the same time, friction on the seals is minimised, significantly reducing wear and ensuring smooth, reliable operation.



Closed

During the closing cycle, the guide roller moves smoothly along the ramp profile, pressing the door leaf firmly against the door frame. At the same time, the articulated joint lowers the door leaf, sealing it against the floor. The frame profile is designed to minimise friction on the seals, significantly reducing wear and ensuring long-term reliability.

Additional requirements for maintaining a hermetic seal at pressure differentials above 100 Pa

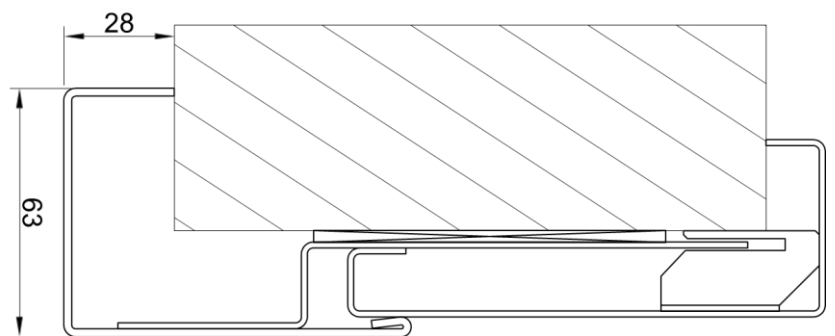
For pressure differentials exceeding 100 Pa, the following requirements must be met:

- Wet glazing for glass panels
- Flat and carefully levelled floor surfaces (+/- 1 mm within the leaf's travel range)
- Flat and precisely installed door frame
- Professional installation of the complete door system
- Door precisely adjusted in accordance with the installation and adjustment instructions

Frame solution

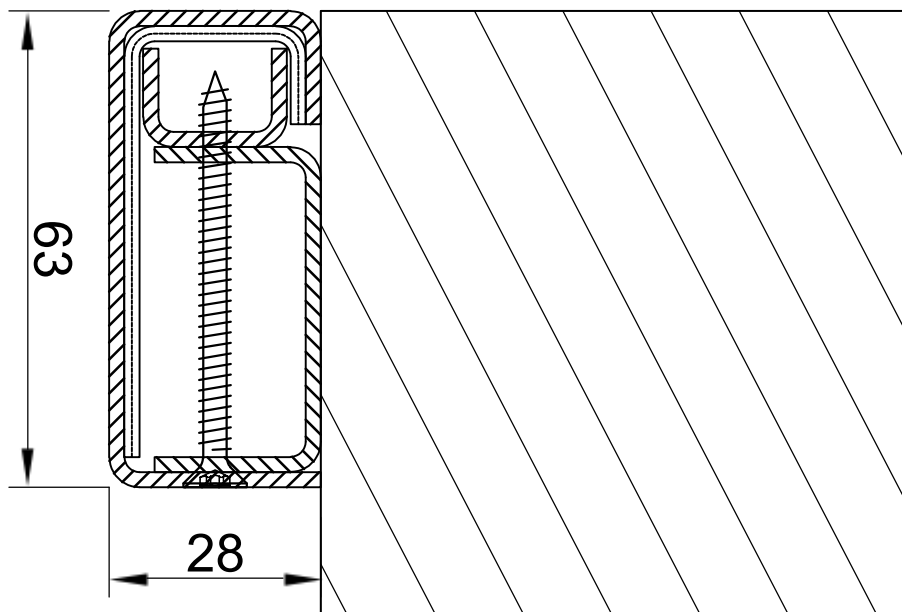


To ensure an effective airtight seal, only two key dimensions need to be considered when preparing the door frame. High-quality door frames are available in steel, stainless steel, or aluminium. They feature a robust, fully enclosed frame construction, ensuring long-term durability. Single-piece and continuous door frames are available on request, allowing the system to be adapted to a wide range of architectural requirements.



GEZE MCRdrive sample door frame with wall-side clearance compensation

Customer-supplied frame solution



Example of a customer-specific framework solution

In addition to GEZE-manufactured door frames, the GEZE MCRdrive system can also be used with customer-supplied door frames or alternative frame constructions. This enables bespoke, project-specific solutions while maintaining a hermetic seal. A conventional door frame is not essential. However, the specific installation requirements for the GEZE MCRdrive must be met:

- Compliance with the two specified key dimensions for the sealing system
- Flat, smooth contact and sealing surfaces
- Execution, for example, as a continuous stainless-steel perimeter frame

Delivery options for the GEZE MCRdrive

1. Ready-to-install system



GEZE



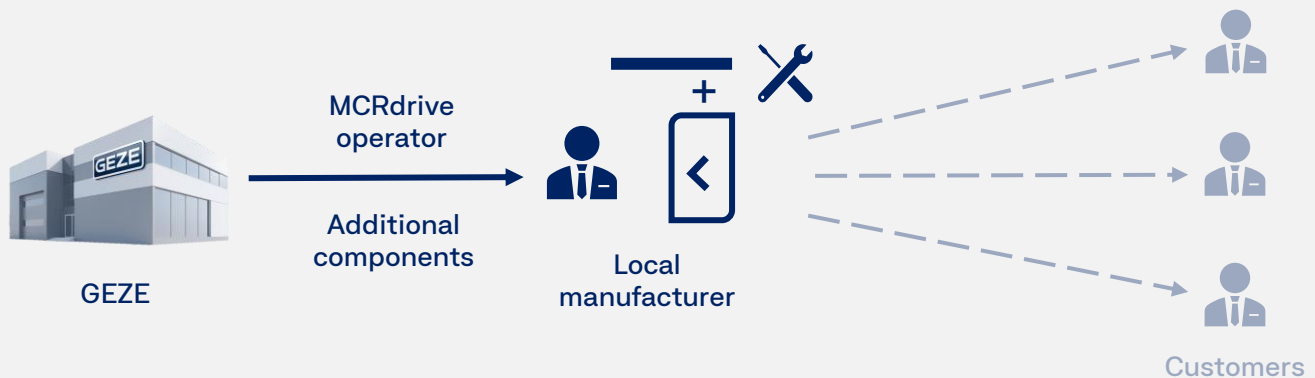
Complete system with or without assembly and
commissioning



Customer

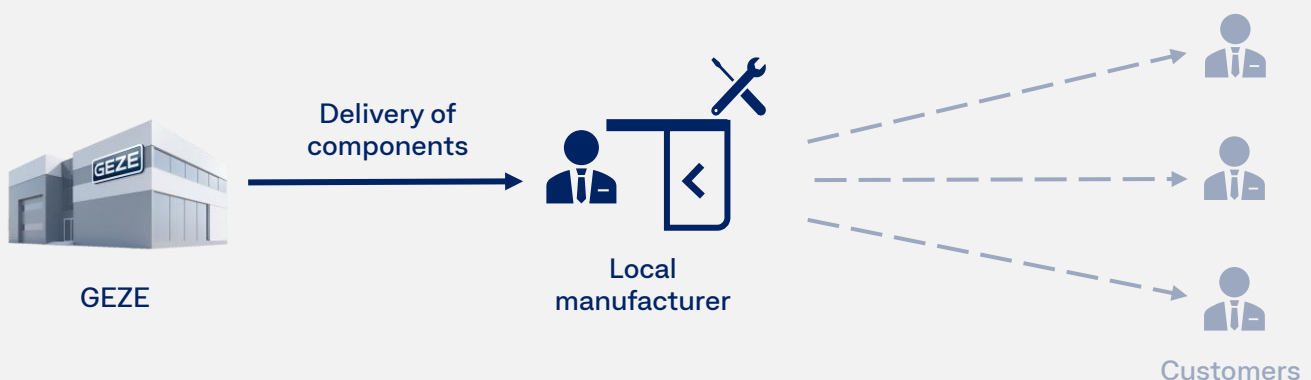
GEZE manufactures the complete GEZE MCRdrive system, including the door leaf, and supplies it as a **ready-to-install unit**. GEZE will carry out the installation and commissioning of the **complete system**.

2. Prefabricated door operator system with on-site-supplied leaf



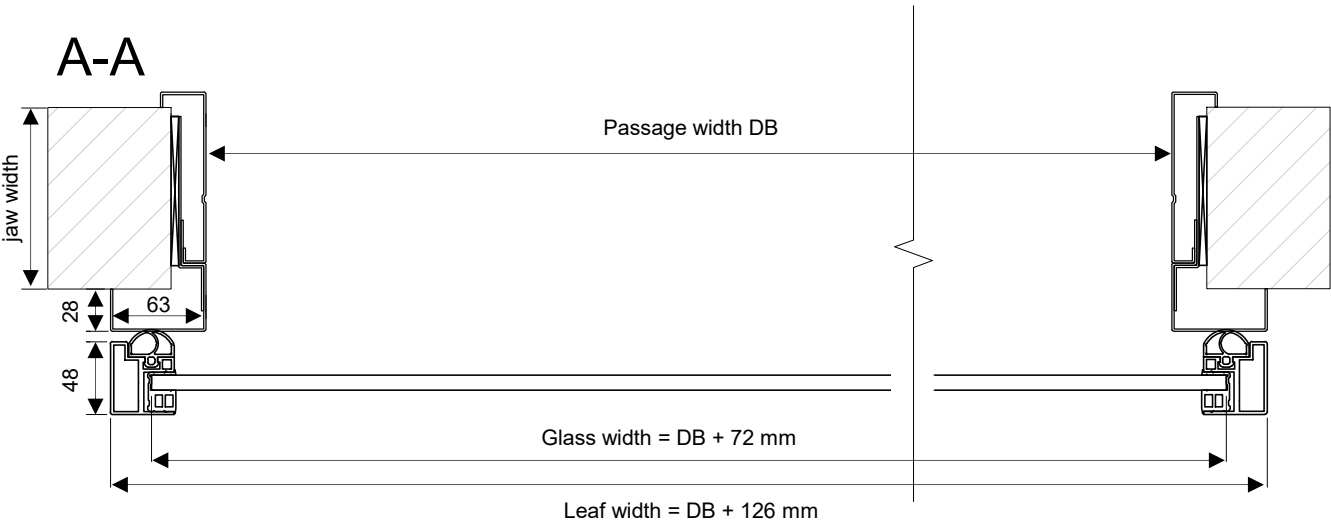
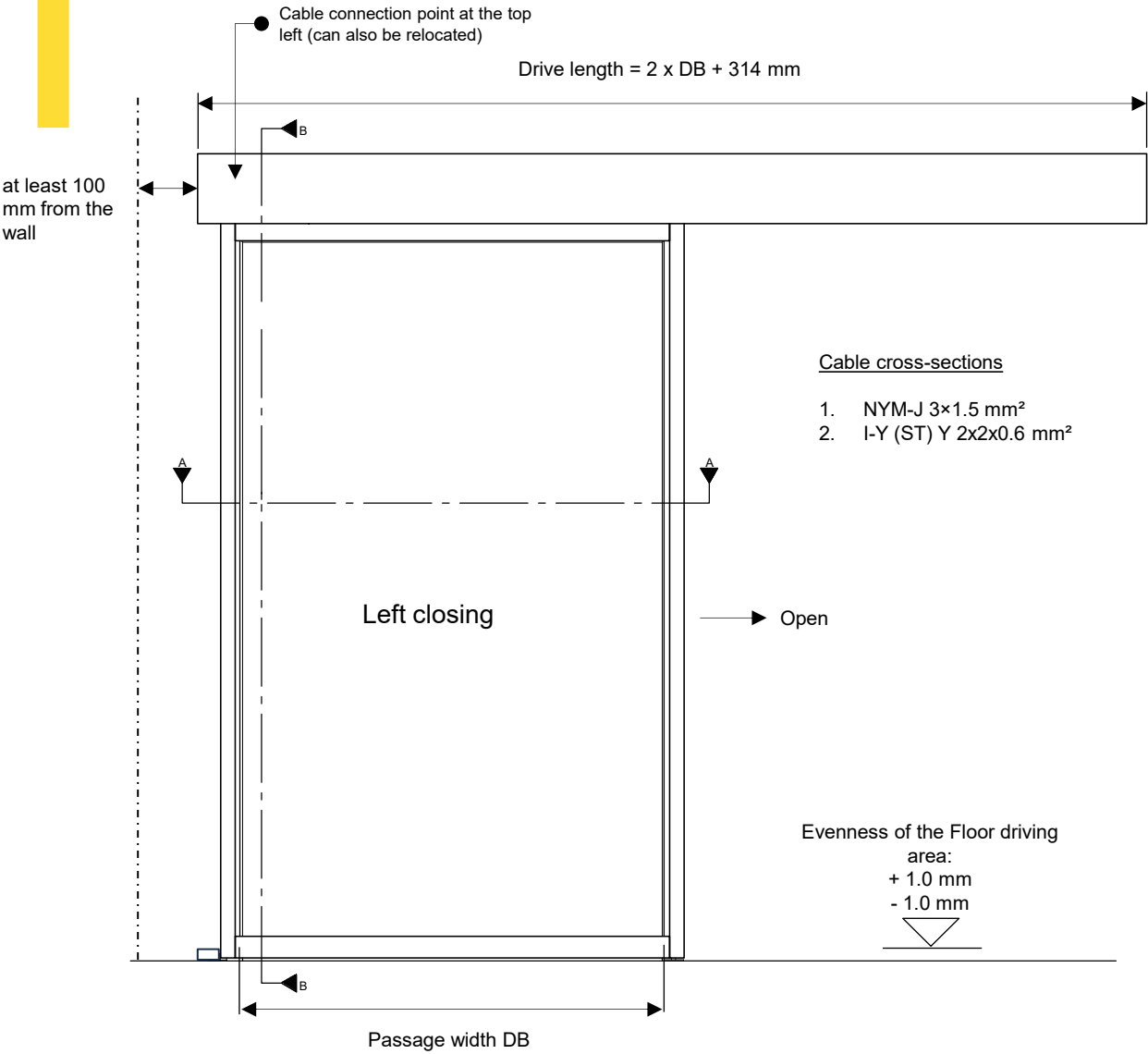
GEZE supplies door manufacturers with a pre-assembled drive unit, including all required components. The door manufacturer combines this with a door leaf manufactured or sourced in-house to create a complete door system. This approach offers customers a high degree of flexibility in the section and design of door leaves, while benefiting from GEZE's expertise in automatic door operator technology.

3. Supply of materials / Kit business



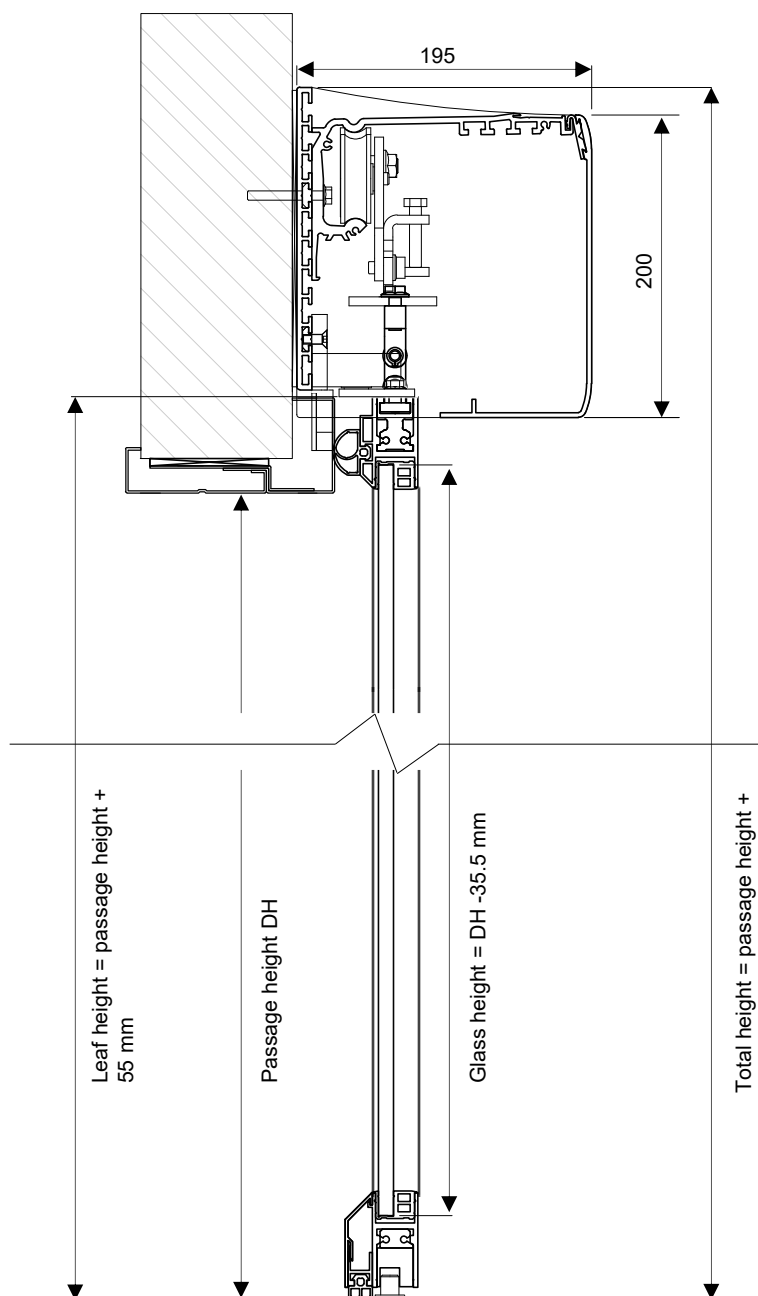
GEZE supplies complete MCRdrive components, including the drive and door leaf systems, to door manufacturers. These can then be combined with the manufacturer's own profile systems and door leaves to create a complete door solution. This enables the GEZE MCRdrive to be integrated into existing systems, offering customers maximum flexibility.

Reference drawings



Reference drawings

B-B



ID lists

GEZE MCRdrive drive system	ID
MCR Kit Powerdrive, including control and motor	193009
Maintenance-free toothed belt (45 m)	85850
MCRdrive EV1 track	106735
Drive cover 90 x 200 mm EV1	124170
Mounting bracket for EV1 drive	125725
Side cover panel drive	123307
Accessories for the drive cover	105914
Ramp profile, main closing edge, right-hand closing	198882
Ramp profile, secondary closing edge, right-hand closing	198835
Ramp profile, main closing edge, right-hand closing	201540
Ramp profile, secondary closing edge, left-closing	201574
Accessories for ramp profile, right-hand side	200552
Accessories for ramp profile, left-hand closing	200784
Attachment point for roller, main closing edge, right-hand closing	200551
Attachment point for roller, main closing edge, left-hand closing	200781
Flat aluminium bar, 50 x 10 mm, in mill finish / EV1	166987 / 216591

GEZE MCRdrive leaf system	ID
Installation material for leaf installation	200547
Stop point: bottom, main closing edge, right-hand closing	200554
Stop point: bottom, main closing edge, left-closing	200786
Top attachment point, secondary closing edge, right-hand closing	200550
Top attachment point, secondary closing edge, left-closing	200774
Floor guide in the door leaf, main closing edge, right-hand closing	200548
Floor guide in the door leaf, main closing edge, left-hand closing	200787
Floor guide in the door leaf, secondary closing edge, right-hand closing	200549
Floor guide in the door leaf, secondary closing edge, left-hand closing	200773
Profile of the leaf suspension in the EV1	29591
MCRdrive upper leaf profile in mill finish aluminium / EV1	192985 / 216694
MCRdrive side leaf profile in mill finish aluminium / EV1	192989 / 216589
MCRdrive lower leaf profile in mill finish aluminium / EV1	192986 / 216700
Connecting profile	200733
Mounting profile for the floor seal	192987
Cover profile for floor seal in mill finish / EV1	192988 / 216590
Full-length bottom guide rail in the door leaf	198830

GEZE MCRdrive sealing system	ID
Set of corner protectors	200536
Glass seal for 22 mm ISO glass	25455
Balloon seal for the three-sided door seal	193010
Double-chamber seal for floor waterproofing	193011

We are GEZE.

For liveable buildings.

GEZE stands for innovation, high quality and comprehensive support for building technologies. From the initial concept, planning and operational implementation using standard products to bespoke system solutions and tailored service and maintenance plans. We offer a wide range of door, window and security technology products and are a key driving force behind the digital integration of building automation.



Connecting expertise – building solutions.

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